

Economic Evaluation of HERA 2

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Economic evaluation: costeffectiveness analysis

• Definition :

"The comparative analysis of alternative courses of action in terms of both their costs and their consequences"

- Requires:
 - Comparison of two or more alternatives
 - Examination of both costs and consequences
- It is not all about choosing the cheapest option!

Measuring cost-effectiveness: incremental approach

"What is the difference in costs and the difference in consequences of NEW compared with OLD approach to DVA?"

Summarising trade-offs: incremental cost-effectiveness ratio (ICER)

Measuring health outcome: QALYs

DURATION of HEALTH STATE

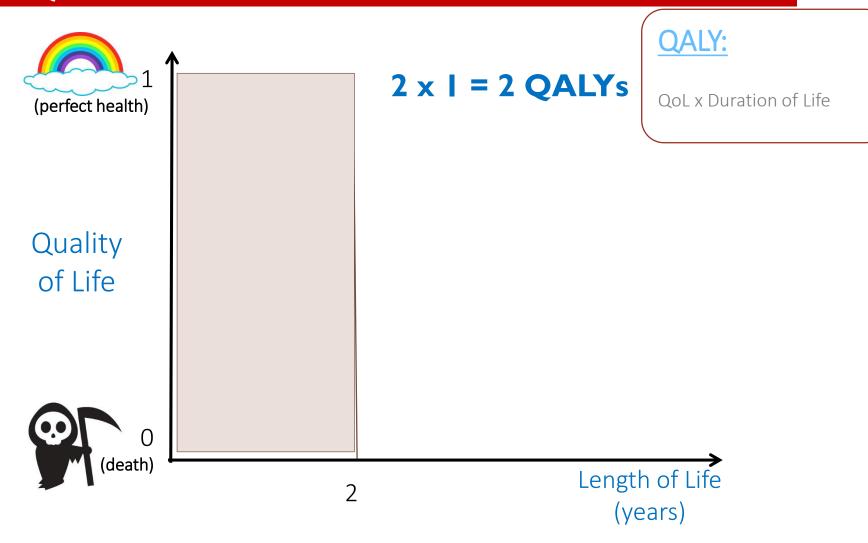


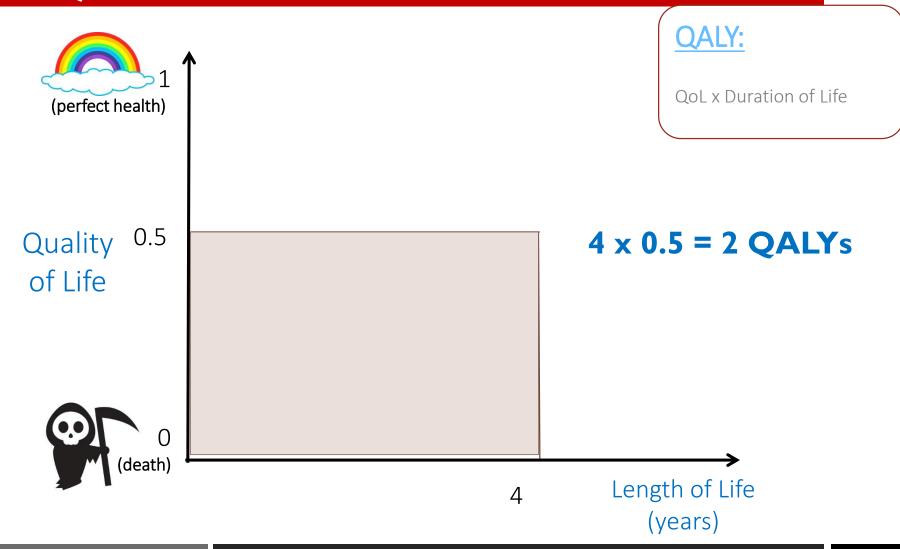
What is a QALY?

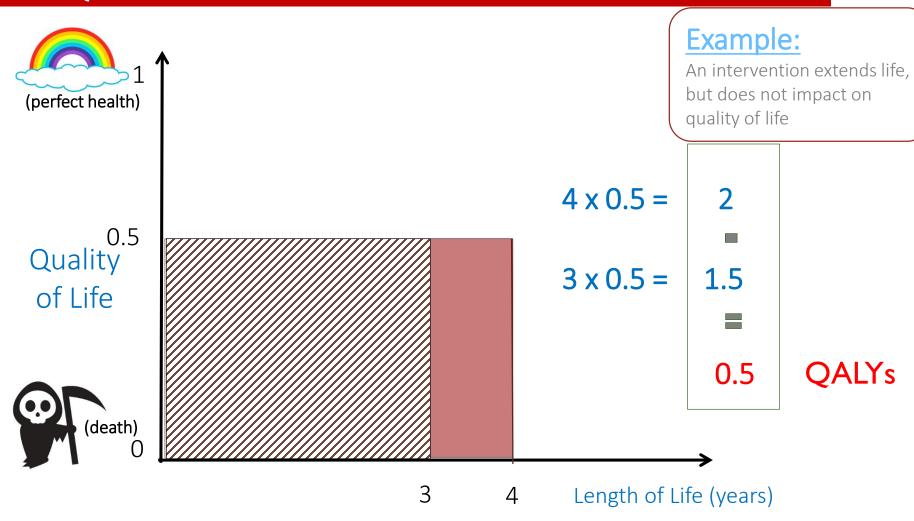
1 QALY = one year of healthy life for one person

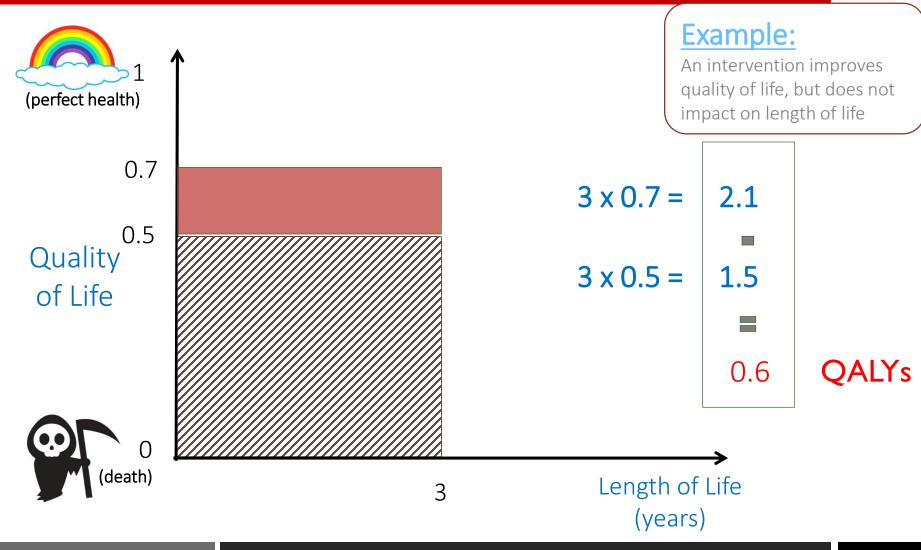
Assumptions

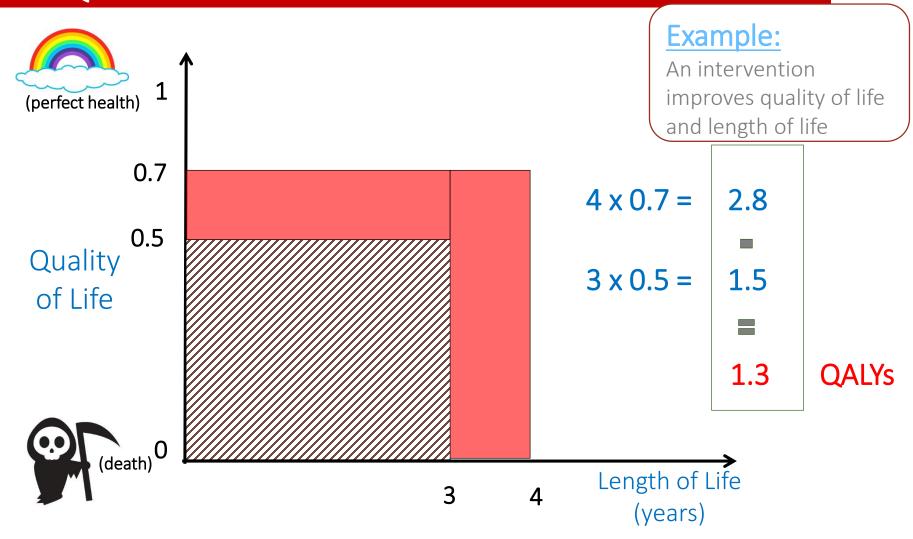
- Length of life vs. quality of life can be traded-off
- Each year of healthy life is of equal value for all



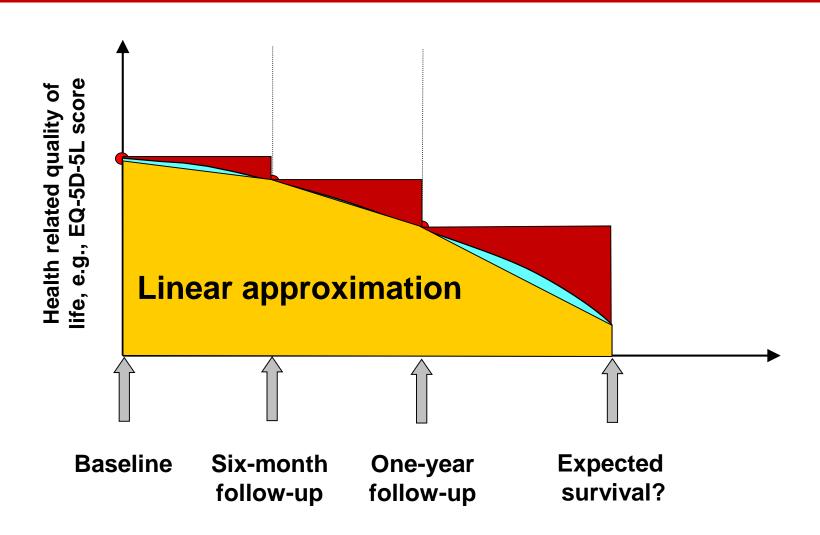








Estimating QALYs from data

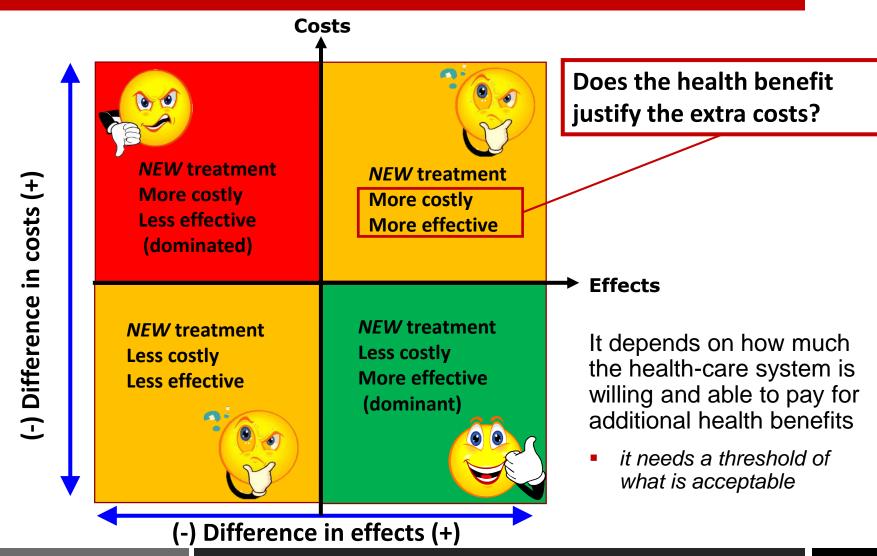


Incremental cost-effectiveness ratio (ICER)

Simple evaluation matrix: *NEW* compared with *OLD* treatment

EFFECTS BETTER WORSE HIGHER Trade-off Reject *NEW* COSTS Adopt *NEW* **Trade-off LOWER**

How cost-effective does it need to be?



Cost-effectiveness thresholds

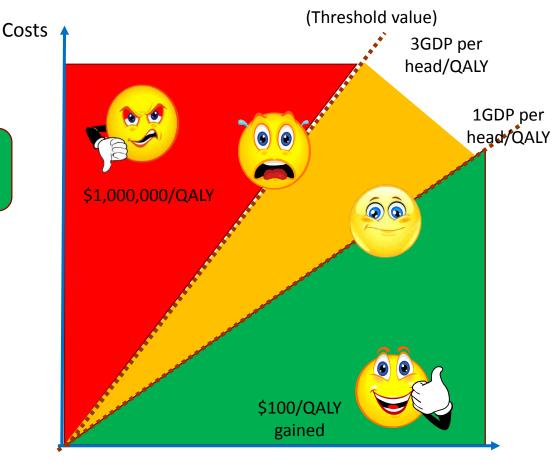
Max acceptable cost-effectiveness ratio



Cost/QALY<1 GDP per capita: likely to be accepted

Cost/QALY 1-3 GDP per capita: needs additional factors to justify

Cost/QALY>3 GDP per capita: these factors have to be increasingly strong



Effects

Euro-Qol EQ-5DTM

Covers five domains of health: mobility, self-care, usual activities, pain and discomfort, anxiety and depression.

Measured on five or three levels (EQ-5D-5L or EQ-5D-3L)

Health state description

EQ-5D-5L: profile of patient self-reported health

Health state valuation

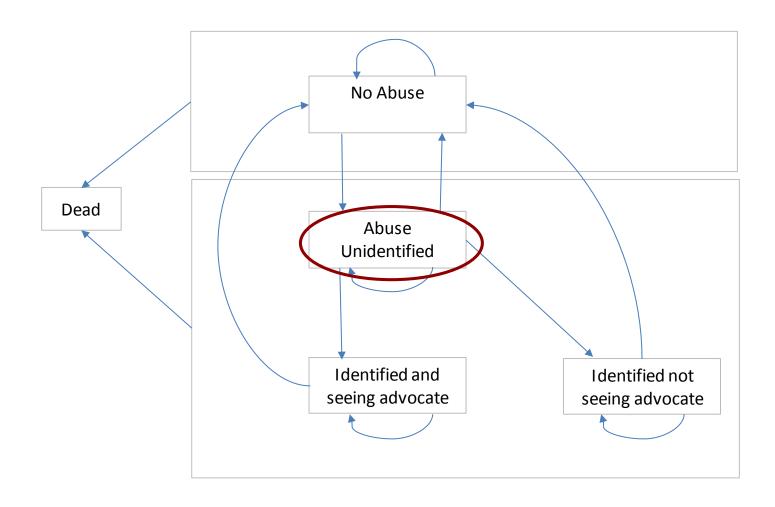
- **EQ-VAS:** patient's rating of their own health from 0-100
- VALUE SETS derived from general public to summarise the profile into an index

Euro-Qol EQ-5D-3L/5LTM

By placing a tick in one box in each group below, please indicate which statements best describe your own health state today		MOBILITY I have no problems in walking about	
Mobility I have no problems in walking about I have some problems in walking about		I have slight problems in walking about I have moderate problems in walking about I have severe problems in walking about I am unable to walk about	
I am confined to bed		SELF-CARE I have no problems washing or dressing myself	
Self-Care I have no problems with self-care I have some problems washing or dressing myself		I have slight problems washing or dressing myself I have moderate problems washing or dressing myself I have severe problems washing or dressing myself I am unable to wash or dress myself	
I am unable to wash or dress myself		USUAL ACTIVITIES (e.g. work, study, housework, family or leisure activities)	
Usual Activities (e.g. work, study, housework, family or leisure activities) I have no problems with performing my usual activities I have some problems with performing my usual activities I am unable to perform my usual activities		I have no problems doing my usual activities I have slight problems doing my usual activities I have moderate problems doing my usual activities I have severe problems doing my usual activities I am unable to do my usual activities	
Pain/Discomfort I have no pain or discomfort I have moderate pain or discomfort I have extreme pain or discomfort		PAIN / DISCOMFORT I have no pain or discomfort I have slight pain or discomfort I have moderate pain or discomfort I have severe pain or discomfort I have extreme pain or discomfort	
Anxiety/Depression I am not anxious or depressed I am moderately anxious or depressed I am extremely anxious or depressed		ANXIETY / DEPRESSION I am not anxious or depressed I am slightly anxious or depressed I am moderately anxious or depressed I am severely anxious or depressed I am extremely anxious or depressed	

Source: adapted from the EuroQol Group: www.euroqol.org

Markov Model



- 1. Local prevalence of DVA
- 2. Number of women eligible to the intervention, i.e. number of women registered to intervention practices AFTER intervention
- 3. Number of women identified by intervention, i.e. after period
- 4. Number of women referred by intervention, i.e. after period
- 5. Number of women registered to intervention clinics BEFORE intervention (control)
- 6. Number of women identified by practices BEFORE the intervention
- 7. Number of women referred by practices BEFORE the intervention
- 8. Death rate (life tables) (control)
- 9. Death rate from abuse (intervention)**

- 8. Intervention budget, including:
 - a. Salaries
 - b. Travel
 - c. Recruitment
 - d. Laptop
 - e. Telephone
 - f. Publicity
 - g. Clinician consultancy
 - h. Evaluation
 - i. Central management costs
- 9. Cost of onward referral, based on contact time (opportunity cost

- 10. Cost of domestic violence and abuse, including:
 - a. Lost economic output
 - b. Health services
 - c. Criminal justice system
 - d. Civil justice system
 - e. Social Welfare
 - f. Personal costs*
 - g. Specialised services

11. Health-related quality of life

- a. Utility No abuse**
- b. Utility Abuse unidentified (EQ-5D @6 weeks and 3months)
- Utility Identified and seeing advocate (EQ-5D @6 weeks and 3months)
- d. Utility Identified not seeing advocate (EQ-5D @6 weeks and 3months)

